

Application No. 09/770,198

IN THE CLAIMS:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A power output apparatus operable to generate power from at least an electric motor to a drive shaft, comprising:

a pattern storing unit that stores a plurality of output characteristic patterns in which the power is generated to the drive shaft, wherein an output characteristic pattern of the plurality of output characteristic patterns correlates between a motor speed and an output torque for supplying the power;

a pattern selecting unit that ~~selects~~ enables selecting one of said plurality of output characteristic patterns stored in the pattern storing unit by operation of an operator;

and

a drive controller that controls driving of at least the electric motor so that the power that is within a range of the selected output characteristic pattern is generated to the drive shaft.

2. (Currently Amended) A power output apparatus according to claim 1, further comprising:

a power demand receiving unit that receives a power demand that is currently desired by ~~an~~ the operator;

wherein the drive controller controls driving of at least the electric motor so that the desired power received by the power demand receiving unit is generated to the drive shaft.

3. (Original) A power output apparatus according to claim 1, further comprising:
an internal combustion engine operable to generate additional power to the drive shaft;

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wherein said drive controller controls driving of both the electric motor and the engine.

4. (Original) A power output apparatus according to claim 3, further comprising:
a power demand receiving unit that receives a power demand that is currently desired by an operator;

wherein the drive controller controls driving of the electric motor and the engine so that the desired power received by the required power receiving unit is generated to the drive shaft.

5. (Original) A power output apparatus according to claim 4, wherein the drive controller controls the electric motor and the engine so that the required power is generated and provided to the drive shaft with a high energy efficiency.

6. (Original) A power output apparatus according to claim 1, wherein the output characteristic patterns stored in the pattern storing unit include a low-revolution high-torque pattern in which a relatively high torque is produced in a low-revolution region of the drive shaft, and a high-revolution high-torque pattern in which a relatively high torque is produced in a high-revolution region of the drive shaft.

7. (Original) A power output apparatus according to claim 1, further comprising a selection output unit that outputs said one output characteristic pattern selected by the pattern selecting unit.

8. (Original) A power output apparatus according to claim 1, further comprising:
a command generating unit that generates a command to drive the electric motor with a driving characteristic that exceeds a rated value of the driving characteristic of the electric motor;

wherein the drive controller is operable, in response to the command from the command generating unit, to add a predetermined output to the selected output characteristic

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pattern, and control driving of the electric motor with the driving characteristic that exceeds the rated value for a limited period of time.

9. (Original) A power output apparatus according to claim 8, further comprising:
a motor state detector that detects an operating state of the electric motor; and
a state determining unit that determines whether the electric motor can be driven with the driving characteristic that exceeds the rated value, based on the operating state detected by the motor state detector,

wherein the drive controller performs control in response to the command from the command generating unit, depending upon a result of determination made by the state determining unit.

10. (Original) A power output apparatus according to claim 9, further comprising a result output unit that outputs the result of determination made by the state determining unit.

11. (Original) A motor vehicle comprising the power output apparatus according to claim 1.

12. (Currently Amended) A power output apparatus operable to generate power from at least an electric motor to a drive shaft, comprising:

a command generating unit that ~~generates~~ enables generating a command to drive the electric motor with a driving characteristic that exceeds a rated value of the driving characteristic of the electric motor by operation of an operator, wherein the driving characteristic correlates between a motor speed and an output torque for supplying the power; and

a drive controller that controls driving of the electric motor, wherein the drive controller is operable, in response to the command from the command generating unit, to control driving of the electric motor with the driving characteristic that exceeds the rated value for a limited period of time.

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13. (Original) A power output apparatus according to claim 12, further comprising:

a motor state detector that detects an operating state of the electric motor; and
a state determining unit that determines whether the electric motor can be driven with the driving characteristic that exceeds the rated value, based on the operating state detected by the motor state detector,

wherein the drive controller performs control in response to the command from the command generating unit, depending upon a result of determination made by the state determining unit.

14. (Original) A power output apparatus according to claim 13, further comprising a result output unit that outputs the result of determination made by the state determining unit.

15. (Original) A motor vehicle comprising the power output apparatus according to claim 12.

16. (Currently Amended) A control method of a power output apparatus operable to generate power from at least an electric motor to a drive shaft, comprising the steps of:

~~selecting~~ enabling a selection of one from a plurality of output characteristic patterns in which the power is generated to the drive shaft in response to an input by an operator, wherein an output characteristic pattern of the plurality of output characteristic patterns correlates between a motor speed and an output torque for supplying the power; and

controlling driving of at least the electric motor so that the power that is within a range of the selected output characteristic pattern is generated to the drive shaft.

17. (Currently Amended) A control method of a power output apparatus operable to generate power from at least an electric motor to a drive shaft, comprising the steps of:

generating a command to drive the electric motor with a driving characteristic that exceeds a rated value of the driving characteristic of the electric motor in response to an

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input by an operator, wherein the driving characteristic correlates between a motor speed and
an output torque for supplying the power; and

controlling, in response to the command, driving of the electric motor with the
driving characteristic that exceeds the rated value for a limited period of time.